iZERO BOX

Parking and vehicle access control solution.

2 Mpx
Global Shutter

8 GB
Memory

I/O
Serial

POE
802.3af

SINGLE LANE

CERTIFIED ISDP10003
Privacy by design

CONFORMITY NDAA
Cyber Security

WARRANTY 5 YEARS

Modern and elegant ANPR *BOX camera* for **high accuracy** OCR number plate recognition even in critical conditions such as dirty and deteriorated number plates, during the day and night. License plate reading solution for those who want to create a professional, low-speed vehicle parking and access control system with ZERO effect: zero errors, zero problems, zero waste of time.

The camera is equipped with:

- 2 Mpx OCR Global Shutter sensor, with a 3.6 mm fixed focus lens
- IR illuminator for readings from 1.2 up to 3.5 m
- Input and Output
- 8GB internal memory for White/Black list making it a stand-alone system without PC connections
- support arm and connection cables

The camera can be powered by 12 Vdc or 802.3af **POE**

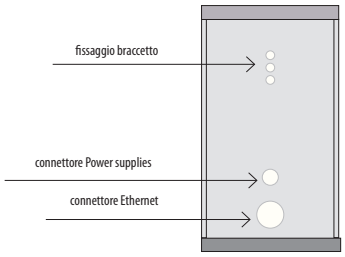
COMPATIBLE WITH THIRD PARTY SYSTEMS: *Siemens, Faac, Skidata, HUB Parking Came, Fadini ... and many others*

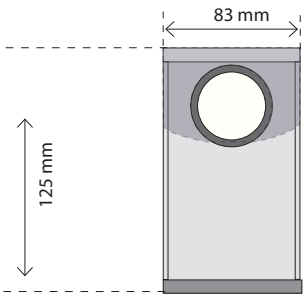
HARDWARE FEATURES OF THE CAMERA

Sensor	
OCR Sensor	2 Megapixel, Global Shutter 1/2.6", CMOS B/N, frame rate of 54 Fps
Lens	
Lens	3,6 mm fixed lens and M12 mount for reading distances between 1,2 and 3,5 mt
IR Illuminator	
Pulsed light IR Illuminator	n.6 high power 820 nm/47° IR LEDs that are compliant with the EN62471:2008 standard on photobiological safety
Internal memory	
Typology and expandability	8 GB High Endurance (transfer rate: 80 MB/s) (-40° ~ + 85°C) industrial microSD SLC memory card, useful for storing White/Black lists and the captured images.
Accuracy	
OCR accuracy	• Up to 99,9% of transits • 30 km/h maximum capture speed
Input/Output	
Input	• n.1 digital input • n.1 volt-free contact input
Output	• n.1 digital output • n.1 0.3 A 125 Vac or 1A 30 Vdc volt-free contact relay for opening barriers/gates automatically
Ports and Interfaces	
Ports	• 10/100 Mbps Ethernet LAN
Power supply	
Power supplies	• 12 Vdc power supply • POE 802.3at power supply
Absored power	8 Watt max
Inbuilt protection	
The camera is protected against:	• reverse polarity • voltage fluctuations greater than 17 Vdc • overloads with thermal protection • overvoltages (TVS) on Ethernet port

HARDWARE FEATURES OF THE CAMERA

Certifications	
OCR	• ***100% accuracy*** according to UNI 10772:2016 class A parameters for rear, two-line, motorcycle and moped number plates.
Data security	• ISDP10003:2023 - *Privacy by Default & Privacy by Design*
Standards	
Respected standards	• EN62471 • EN55032 • EN55035 • EN61000 • EN62368-1 • EN60529 • EN60068 • EN60721 • European standard RoHS2 - 2011/65/UE
General	
Material	The camera is made of die-cast aluminium with an ABS weather-shield.
Operating temperature	From -25°C to +45 °C without the need of fans or heaters.
Protection rating	IP66
Dimension (mm)	L=83 : H=125; D=88
Weight	0,9 Kg





SOFTWARE FEATURES OF THE CAMERA

Embedded Algorithms	
Standard built-in functions	• License plate reading (OCR) - reading characters of over 50 countries • Fog-Fighter (reading license plates in the fog) • Dirt elimination • Predictive character analysis • Angle compensation • Magic spot
Data communications	
Integrated webserver	• Onvif communication protocol • Save data directly to local server or remote NAS. • Integration with third party VMS software solutions. • Synchronized recording of metadata and captured number plate image. • Dynamic creation and updating of multiple lists (black/white): only for the FULL version. • Integration and saving in memory of Jpg snapshot images in Http. • Privacy management with automatic deletion of image data after a specified period of time. • Internal memory management. When the memory is full, the cameras automatically delete the oldest files to make room for the new ones (Fi.Fo method). • Multiple action alarm management.
Protocols	TCP/IP, UDP, HTTP, HTTPS, FTP, FTPS, RTP/RTSP, DHCP, SNMP.
Other integrated protocols	non opto-isolated Wiegand
Data security	
Data protection	• HTTPS encryption. • FTPS (FTP over TLS/SSL) encryption. • Micro SD memory encryption. • Automatic deletion of data and images after specified period of time (privacy management). • AES256 Advanced Encryption Standard. • SHA2 Secure Hash Algorithm 2.
Video output	
OCR sensor	2 Megapixel Jpeg images and video stream in RTP/RTSP with MPEG4 e H264 encoding.
Installation	
Geometry	• Single lane detection • Gate width: up to 3.5 m • Reading distance: up to 3.5 m • mounting height: up to 1.5 m

SOFTWARE FEATURES OF THE CAMERA

Functionality	
Operating system	• Linux Embedded
Standard built-in functions	• Embedded FPGA video signal processing. • Mode of operation: free-run, weighted, redundant, external trigger. • Double FTP server and double IP notification server. • Dynamic FTP notification forwarding customization. • IP notification customization. • Multiple user management using HTTPS protocol protected access credentials for accessing the camera. • List management (white/black list, no list) with independent actions for each list. • Synchronized recording of metadata and captured code/number plate image. • Integration with third party VMS video surveillance software solutions. • Save data on a local server or remote NAS. • HTTPS security management. • FTPS (FTP over TLS/SSL) security management. • Live and check control function for checking the operation of the entire system. • Synchronization of date and time via NTP, IEEE1588 protocol. • Possibility of updating firmware from the web page.
Compatibility and integration	
The camera can be integrated into the access control systems of the most famous brands in the parking and access control market such as: HUB PARKING - FAAC - SKIDATA - SIEMENS - CAME - FADINI	

QENTRY

Software for VEHICLE ACCESS CONTROL

CERTIFIED
Privacy by Design
& Privacy by Default
ISDP 10003

A software solution for those who need a valid tool to manage their customers' parking spaces, such as hotels, campsites, residences, car parks and also private homes, with management functions including:

- permits,
- schedules,
- special types of customers (VIP),
- calculating stay costs,
- entrance of vehicles of a family group, in order to manage the limited availability of parking spaces in residential complexes or campsites. Upon reaching the maximum number of places available, Qentry inhibits entry to additional vehicles of the family group, enabling entry only when the assigned place has been freed.

Qentry is capable of handling special categories of vehicles (ambulances, Law Enforcement, suppliers or special customers, which can automatically enter, regardless of the set time conditions. Qentry is an access control and parking management module and can also be used as a video recording and surveillance system.

About us

SELEA manufactures and implements solutions both for vehicle access control, as well as for territorial safety and traffic control. Each hardware and software product is rigorously designed and manufactured by Selea and this means, for the customer, to benefit from complete and continuous technical support at any time.

Selea Srl
Via Aldo Moro, 69
46019 Cicognara (MN)
PIVA 01811290202
Tel +39 0375 88.90.91
Fax +39 0375 88.90.80
www.selea.com
infocom@selea.com

- LPR **CAMERA** PRODUCTION
- **SOFTWARE** DEVELOPMENT
- INTERNAL RESEARCH & DEVELOPMENT
- 100% MADE IN SELEA

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